

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,733	09/08/2005	Takeshi Fujisawa	1843.1002	6905
21171 STAAS & UA	7590 09/13/2007		EXAMINER	
STAAS & HALSEY LLP SUITE 700			BUTTNER, DAVID J	
1201 NEW YC WASHINGTO	ORK AVENUE, N.W. N. DC 20005		ART UNIT PAPER NUMBER 1712	
	,			
			MAIL DATE	DELIVERY MODE
			09/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/521,733	FUJISAWA ET AL.		
		Examiner	Art Unit		
		David Buttner	1712		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
A SHOWHIC - External after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is not soft time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 04 Se	eptember 2007.			
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Dispositi	on of Claims				
 4) Claim(s) 1-9 and 11-17 is/are pending in the application. 4a) Of the above claim(s) 3-6,13 and 14 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,7-9,11,12,15-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9)[The specification is objected to by the Examiner	·.			
10)	The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the E	Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority u	inder 35 U.S.C. § 119	,			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
3) X Inform	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 1/19/05;7/5/06.	5) Notice of Informal Pa			

Art Unit: 1712

It is noted that this application appears to claim subject matter disclosed in prior Application No. PCT/JP03/09184, filed 7/18/03. A reference to the prior application must be inserted as the first sentence(s) of the specification of this application or in an application data sheet (37 CFR 1.76), if applicant intends to rely on the filing date of the prior application under 35 U.S.C. 119(e), 120, 121, or 365(c). See 37 CFR 1.78(a). For benefit claims under 35 U.S.C. 120, 121, or 365(c), the reference must include the relationship (i.e., continuation, divisional, or continuation-in-part) of all nonprovisional applications. If the application is a utility or plant application filed under 35 U.S.C. 111(a) on or after November 29, 2000, the specific reference to the prior application must be submitted during the pendency of the application and within the later of four months from the actual filing date of the application or sixteen months from the filing date of the prior application. If the application is a utility or plant application which entered the national stage from an international application filed on or after November 29, 2000, after compliance with 35 U.S.C. 371, the specific reference must be submitted during the pendency of the application and within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) or sixteen months from the filing date of the prior application. See 37 CFR 1.78(a)(2)(ii) and (a)(5)(ii). This time period is not extendable and a failure to submit the reference required by 35 U.S.C. 119(e) and/or 120, where applicable, within this time period is considered a waiver of any benefit of such prior application(s) under 35 U.S.C. 119(e), 120, 121 and 365(c). A benefit claim filed after the required time period may be accepted if it is accompanied by a grantable petition to accept an unintentionally

Art Unit: 1712

delayed benefit claim under 35 U.S.C. 119(e), 120, 121 and 365(c). The petition must be accompanied by (1) the reference required by 35 U.S.C. 120 or 119(e) and 37 CFR 1.78(a)(2) or (a)(5) to the prior application (unless previously submitted), (2) a surcharge under 37 CFR 1.17(t), and (3) a statement that the entire delay between the date the claim was due under 37 CFR 1.78(a)(2) or (a)(5) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional. The petition should be addressed to: Mail Stop Petition. Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If the reference to the prior application was previously submitted within the time period set forth in 37 CFR 1.78(a), but not in the first sentence(s) of the specification or an application data sheet (ADS) as required by 37 CFR 1.78(a) (e.g., if the reference was submitted in an oath or declaration or the application transmittal letter), and the information concerning the benefit claim was recognized by the Office as shown by its inclusion on the first filing receipt, the petition under 37 CFR 1.78(a) and the surcharge under 37 CFR 1.17(t) are not required. Applicant is still required to submit the reference in compliance with 37 CFR 1.78(a) by filing an amendment to the first sentence(s) of the specification or an ADS. See MPEP § 201.11.

Applicant's election without traverse of Group I in the reply filed on 9/4/07 is acknowledged.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

Art Unit: 1712

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,2,7-9,11,12 and 15-17 rejected under 35 U.S.C. 103(a) as being unpatentable over JP06234911 in view of JP11080535 or EP1148097 optionally in further view of the Concise Encyclopedia of Polymer Science of Polymer Science and Engineering.

JP06234911 exemplifies (table 1) blends of PPE, styrenic resin, SEPS2104, SEPS4055, grafted polyolefin and stabilizer. SEPS2104 is a hydrogenated styrene-isoprene-styrene block polymer that has 65% styrene qualifies as applicant's (B). SEPS4055 is a hydrogenated styrene-isoprene-styrene block polymer that has 33% styrene. The examiner is unaware of the amount of vinyl bonds in SEPS4055. However, it is known that high amounts of vinyl content is hydrogenated styrene/diene block polymers are favorable in PPE compositions. JP'535 (paragraph 13) teaches a high vinyl content improves damping, while EP'097 (paragraph 42) teaches the high content improves impact strength. It would have been obvious to ensure the hydrogenated styrene-isoprene-styrene block polymer has a high vinyl content for the expected advantages.

In regards to claim 2's Mw, the primary reference's PPE (paragraph 18) has a limiting (ie reduced) viscosity very close to that of applicant (page 15 line 8,12) and therefore must have a very close Mw. Additionally, injection/extrusion grade PPE is generally known to have a Mw of ~40,000 and a Mn of ~18,000 (see Concise Encyclopedia of Polymer Science and Engineering). One would expect the primary reference's Mw/Mn to be within applicant's range also.

Art Unit: 1712

Kurasawa 2002/0035206 (paragraph 76) and Hakamaya '964 (col 9 line 17) are cited for their description of SEPS2104 and 4055.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Buttner whose telephone number is 571-272-1084. The examiner can normally be reached on weekdays from 10 to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski, can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Buttner

9/11/07

DAVID J. BUTTNER
PRIMARY EXAMINER

David Buttner